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APPLICATION NO.	FILIN	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/831,805	05/1	0/2001	Henry Yue	PF-0643 USN	9732
22428	7590	09/27/2004		EXAMINER HADDAD, MAHER M	
FOLEY AN	ID LARDN	ER			
SUITE 500 3000 K STREET NW				ART UNIT	PAPER NUMBER
WASHINGT	ON, DC 2	0007		1644	
				DATE MAILED: 09/27/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Advisory Action	09/831,805	YUE ET AL.					
Advisory Action	Examiner	Art Unit					
	Maher M. Haddad	1644					
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence address					
THE REPLY FILED 09 September 2004 FAILS TO PLACE Therefore, further action by the applicant is required to average final rejection under 37 CFR 1.113 may only be either: (1) condition for allowance; (2) a timely filed Notice of Appeal Examination (RCE) in compliance with 37 CFR 1.114.	oid abandonment of this applica a timely filed amendment which	ition. A proper reply to a places the application in					
PERIOD FOR RE	PLY [check either a) or b)]						
a) \square The period for reply expires $\underline{3}$ months from the mailing date of the final rejection.							
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire a ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The fee have been filed is the date for purposes of determining the period o fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the content of the con	ater than SIX MONTHS from the mailing FILED WITHIN TWO MONTHS OF THe date on which the petition under 37 CFI f extension and the corresponding amount in the shortened statutory period for reply the later than three months after the mail	g date of the final rejection. IE FINAL REJECTION. See MPI R 1.136(a) and the appropriate exunt of the fee. The appropriate expriginally set in the final Office ac	EP xtension extension ction; or				
timely filed, may reduce any earned patent term adjustment. See 37 C	• •						
1. A Notice of Appeal was filed on Appellant's 37 CFR 1.192(a), or any extension thereof (37 CFR							
2. The proposed amendment(s) will not be entered be	ecause:						
(a) \square they raise new issues that would require further	er consideration and/or search (s	ee NOTE below);					
(b) they raise the issue of new matter (see Note b	(b) They raise the issue of new matter (see Note below);						
(c) they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or							
(d) they present additional claims without canceling a corresponding number of finally rejected claims.							
NOTE:							
3. Applicant's reply has overcome the following rejection	ion(s):						
4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s).	be allowable if submitted in a se	parate, timely filed amendi	ment				
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for application in condition for allowance because: See		dered but does NOT place	the				
6. The affidavit or exhibit will NOT be considered becaraised by the Examiner in the final rejection.	ause it is not directed SOLELY to	issues which were newly					
7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claims wo							
The status of the claim(s) is (or will be) as follows:							
Claim(s) allowed: None.							
Claim(s) objected to: None.							
Claim(s) rejected: 21 and 32.							
Claim(s) withdrawn from consideration: 23,25-31 ar.	nd 34-44.						
8. \square The drawing correction filed on is a) \square appr	oved or b)☐ disapproved by th	ne Examiner.					
9. Note the attached Information Disclosure Statemen	t(s)(PTO-1449) Paper No(s)	·					
10. Other:							

Continuation of 5. does NOT place the application in condition for allowance because:

Claims 22 and 32 stand rejected under 35 U.S.C. 112, first paragraph because the specification, while being enabling for the polypeptide comprising an amino acid sequence of SEQ ID NO:6 does not reasonably provide enablement for an isloalted polypeptide comprising an amino acid sequence that has at least 95% sequence identity with the amino acid sequence of SEQ ID NO: 6 or a composition thereof. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and or use the invention commensurate in scope with this claim for the same reasons set forth in the previous Office Action mailed 6/11/04.

Claims 22 and 32 stand rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Applicant is in possession of SEQ ID NO: 6.

Applicant is not in possession of an isloalted polypeptide comprsising an amino acid sequence that has at least 95% sequence identity with the amino acid sequence of SEQ ID NO: 6 or a composition thereof for the same reasons set forth in the previous Office Action mailed 6/11/04

Applicant's arguments, filed 9/9/04, have been fully considered, but have not been found persuasive.

Applicant argues that a polypeptide that shares "95% sequence identity" with SEQ ID NO: 6 is one that can accommodate no more than 15 different amino acids. Applicant asserts that calim 22 requires the calimed variant to be functional. Applicant concluded that the skille person would know which residues of SEQ ID NO: 6 would be amenable to modification. Applicant contends that just as there exists degeneracy of the DNA code, thee similarly exists amino acids substitutions that can be made to a polypeptide which are conservative in nature, and which do not alter the basic properties of the residue that is replaced.

Again, Applicant has provided little or no guidance beyond the mere presentation of sequence data to enable one of ordinary skill in the a to determine, without undue experimentation, the positions in the protein which are tolerant to change (e.g. such as by amino acid substitutions or deletions), and the nature and extent of changes that can be made in these positions. Due to the large quantity of experimentation necessary to obtain "5% sequence identity" of SEQ ID NO: 6, to generate a large number of derivatives recited in the claims (for at least 95%, 15 to the power5= 759,375 variation), and to determine the specific activity of the variants, the lack of direction/guidance presented in the specification regarding the same, the absence of working examples directed to the same, the comple nature of the invention, the state of the prior art which establishes that biological activity cannot be predicted based on structural similarity and the breadth of the claims which embrace a broad class of structural variants, undue experimentation would be required of the skilled artisan to make and/or use the claimed invention in its full scope.

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